

_Environment, Health, & Safety _ Training Program

EHS 353 Chemical Hygiene and Safety Refresher Training Course Syllabus

Subject Category: GeneralCourse Prerequisite:EHS0348Course Length: 2 hoursMedical Approval:NoneDelivery Mode:Web-based TrainingFrequency:Every 3 Years

Course Purpose: This course provides information to Lab employees on the hazards and controls associated with chemicals that may be encountered at the Laboratory. Such information will include methods and observations that may be used to detect the presence or release of a hazardous chemical in a work area. It will also include the physical and health hazards associated with chemicals in a work area, along with the steps employees can take to protect themselves from such hazards.

Course Objectives:

- 1. Identify who to contact to discuss safety concerns
- 2. Recall how to obtain and use information resources to help keep you safe while performing work with chemicals.
- 3. Recognize the two most important routes of exposure when working with chemicals
- 4. Recall the physical hazards associated with flammables, combustibles and reactives
- 5. Recall the health hazards associated with work involving corrosives and toxic chemicals
- 6. Identify alternative ways to reduce chemical exposure
- 7. Recognize when to use fume hoods and glove boxes
- 8. Identify how to properly select, dispose, and store personal protective equipment
- 9. Recall the laboratory requirements for eating and storing food
- 10. Identify good housekeeping practices
- 11. Recall the posting requirements for work areas containing hazardous chemicals
- 12. Identify how to properly label, safely store, and transport chemicals
- 13. Recall the chemical inventory responsibilities of PIs
- 14. Recall the chemical exposure detection methods
- 15. Recognize the warning properties of chemical exposure
- 16. Recognize what to do when a spill occurs
- 17. Identify what to do in personal exposure emergencies
- 18. Recall the fire extinguishers requirements when working with chemicals

Subject Matter Expert: Larry Mclouth

Web-based Instructional Designer: Brooke Vaughn

Course Instructional Materials: Web-based course and a PDF downloadable version of the course is available within the course.

Performance Criteria: Employees will be asked to demonstrate what they have learned from the web-based training by taking a quiz at the end of the course. Employees must pass the quiz with a 80% score to receive course credit.

Web Resource: EH&S Training Program web page @ http://www.lbl.gov/ehs/html/training.htm